

# SARAH DICKERSON

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## EDUCATION

The University of Texas at Austin	Bachelor of Science, Electrical and Computer Engineering Minor: Business Fundamentals Overall GPA: 3.7	May 2024
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## RELEVANT EXPERIENCE

### Work Experience

Silicon Labs   <i>Software Engineering Intern</i> ; Austin, TX	Jun 2023 - Aug 2023
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- Increased average code coverage on 4 C++ projects from 21.5% to 81.5% by developing and expanding unit tests and optimizing Makefiles, significantly enhancing overall code quality and unit test effectiveness
- Enhanced the metadata management of Simplicity Studio IDE by resolving bug and feature tickets in the product's extensive Java codebase, driving continuous improvement of company software

Aristocrat   <i>Software Engineering Intern</i> ; Austin, TX	Sep 2022 - Apr 2023
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- Developed a proof-of-concept loyalty app using Angular, facilitating seamless NFC communication from mobile wallet passes to electronic gambling machines, enhancing user experience and connectivity
- Demonstrated the app's capabilities with sample wallet passes, showcasing its potential to executives
- Automated wallet pass generation using Python scripts, facilitating integration into the loyalty app

Poly (Acquired by HP in November 2022)   <i>Video Software Engineering Intern</i> ; Austin, TX	Jun 2022 - Aug 2022
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- Designed a Windows streaming app in C/C++ and Qt to optimize internal development and debugging processes for a newer IP video connection conference mode

### Academic Experience

Texas Rocket Engineering Lab   <i>Software Engineer</i> ; Austin, TX	Feb 2021 - Present
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- Enhanced rocket subsystem monitoring by developing fault handling mechanisms for the dashboard application using C++ and React to streamline fault detection and response

The University of Texas at Austin   <i>Undergraduate Teaching Assistant</i> ; Austin, TX	Jan 2022 - Apr 2023
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- Led weekly recitation sessions for 15-20 students on C/C++ topics, data structures, algorithms, and more, resulting in heightened comprehension and academic success within my section

## RELEVANT PROJECTS

Calendar Fusion   NextJS, TypeScript, React, Prisma, MongoDB	Jun 2023 - Present
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- Developing a dynamic group calendar web application as a personal project, unifying multiple live calendars from each group member into a single unified group view to streamline collaborative planning
- Utilizing the Google Calendar API to fetch and display events from members' existing personal calendars

Hardware-as-a-Service (HaaS) Website   React, Python, Flask, MongoDB, Heroku	Feb 2023 - Apr 2023
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- Orchestrated a successful collaborative project with 3 peers to create a user centric HaaS website
- Designed robust database models and developed efficient API endpoints for smooth data interaction
- Integrated frontend user interfaces with backend APIs for interactive user experiences

## LEADERSHIP EXPERIENCE AND ACTIVITIES

Women in Engineering, <i>Peer Assistance Leader</i>	Apr 2021 - Present
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- Empowered 3 mentees to overcome academic, career, and social challenges, fostering their personal and professional growth in engineering

## PROGRAMMING LANGUAGES AND SKILLS

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| <ul style="list-style-type: none"><li>Java, C/C++, Python, JavaScript, TypeScript</li><li>NextJS, Flutter, React, Angular</li></ul> | <ul style="list-style-type: none"><li>Flask, MongoDB, Firebase, NoSQL</li><li>HTML/CSS, Git, Linux</li></ul> |
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